

SYSTEM AND METHOD OF PERFORMING
BALL AND SOCKET JOINT ARTHROSCOPY

Abstract of the Disclosure

A method of performing a total replacement surgery of a ball and socket joint of a patient using a surgical navigation system is performed by constructing intra-operatively a three dimensional model of the joint based on landmarks of the patient, by preparing the joint to receive implants, by placement of implants into the prepared joint and by determining range of motion and/or stability of the reconstructed joint.

A system to perform a total replacement surgery of a ball and socket joint of a patient includes a surgical navigation system, a first circuit to construct intra-operatively a three dimensional model of the joint, a first tool to prepare the joint, a second tool to place an implant into the prepared joint, and a second circuit to determine range of motion and/or stability of the reconstructed joint.

A virtual trialing or look ahead feature can also be included.

A tool to locate the center of the canal of a limb includes an elongate body, a series of outwardly biased surfaces spaced around the elongate body and an interface to enable a tracking device to be attached to the body. A tool to guide the depth of the resection of a neck of a limb comprises a flat guide surface, a handle, and an interface to enable a tracking device to be attached to the tool.